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東京都日野市さくら町1番地コニカ株式会  
社内(54) 【発明の名称】 集光させて画像情報を記録する撮影用カメラ、それを用いたハロゲン化銀写真システム及びその  
画像形成装置

(57) 【要約】

【課題】 本発明の目的は、撮影時に高い感度が得られ、かつ粒状性が改良された新規な撮影用カメラ、それを用いたハロゲン化銀写真システム及びその画像形成装置を提供することにある。

【解決手段】 カメラ内のシャッター機構とハロゲン化銀感光材料との間に、離散的に集光させる手段を有し、撮影時にハロゲン化銀感光材料面上に被写体情報を離散的に集光させて記録し、該ハロゲン化銀感光材料を現像処理後、電気的な信号に変換する手段により画像情報を読み取り、該画像情報を離散的に集光させる手段により生じる非集光領域を画像処理により補間することを特徴とするハロゲン化銀写真システム。

2001-147466A Photographic camera that records image information by condensing, silver halide photographic system using it, and image formation apparatus  
H. Takano, H. Haraga (Konica)

Provide a new photographic camera, which can obtain a high sensitivity when photograph and improves graininess, and a silver halide photographic system and an image formation apparatus using it.

Claim 1 Silver halide photographic system of which characteristic is that it has a means to condense lights discretely between a shutter mechanism and silver halide sensitized material inside a camera, records a subject information by condensing lights discretely on the silver halide sensitized material when photograph, develops the silver halide sensitized material, reads the image information by a means to convert to electric signals and compensates non-condensed area of the image information generated by the means to condense discretely by the image processing.

Claim 2 Silver halide photographic system described in claim 1 of which characteristic is that the means to condense lights discretely is a micro-lens array, which arranges micro-lenses.

Claim 3 Photographic camera of which characteristic is that it has a means, which contacts a means to condense lights discretely when photograph and a photosensitive surface of a silver halide sensitized material, and records an image information on the silver halide sensitized material; and a means, which provides an information to distinguish that recorded by the means to condense lights discretely on the silver halide sensitized material.

Claim 4 Image formation apparatus of which characteristic is that it has a means, which distinguishes the silver halide sensitized material, which is recorded by a means to condense lights discretely, a means to convert the image information recorded on the silver halide sensitized material to electric signals, and a means, which compensates non-condensed area of the obtained image information generated by the means to condense discretely by the image processing.

1 camera main body, 2 micro-lens array, 3 micro-lens, 4 sensitized material (film), 5 incident lights from a camera, 6 pressure plate equipped on a camera, 7 pressure spring, 8 ND filter switchover knob, 9 ND filter, 10 photographic target frame of film, 11 micro-lens array switchover knob, 12 light emitting diode light source, 13 diffuser, 14 condenser lens, 15 film, 16 diffusion optical system lens, 17 CCD image receiving part, 18 preamp part, 19 drive motor, 20 sensor